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1. DUKEL'SKAYA, N.M., VASIL'EVSKIY, A.P.
2. USSR (600)
4. Rodentia
7. Rodent control in the Main Botanical Garden. ^{ix} Botl.Glav.bot.sada no. 12. 1952

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DUKELSKAYA, N. M.

May/June 53

USSR/Biology - Rodents

"The Distribution and Extermination of Common Field Mice (*Microtus arvalis* Pall.)
in Cities," N.M. Dukelskaya, S. V. Vishnyakov, Central Sci-Res Inst of Disinfection,
Min of Health USSR, Moscow Observation Station

Zool Zhur, Vol 32, No 3, pp 506-512

Describes extermination methods used against common field mice found in large
numbers in storage houses containing food products, i. e., vegetables, eggs, fresh
and preserved fish, etc. Largest number of rodents are found in places storing
carrots. Rodents brought in with food products from other areas so not mix with
local rodent population. Laboratory expts showed good results in extermination
of rats with automobile-engine exhaust gas.

Source #264T13

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Result of combating rodents in the Main Botanical Garden. Trudy Glav.
bot, sada 4:234-241 '54. (MIRA 8:5)
(Plants, Protection of) (Rodent control)

DUKES, A. J.

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VISHNYAKOV, S. V.; DUKEL'SKAYA, N. M.; IVANOVA, V. V.

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Zool. zhur. 34 no. 4: 902-914 J1-Ag '55. (MIRA 8:9)

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issledovatel'skiy dezinfektsionnyy institut Ministerstva zdoravo-
okhraneniya SSSR i Opytno-prakticheskaya laboratoriya Glavkholoda
(Rodent control)

DUKEL'SKAYA, N. M.

ADOL'F, T.A.; BASHENINA, N.V.; ~~DUKEL'SKAYA, N.M.~~

Long-lasting winter rodent control spots. Biol. Glav. bot sada
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1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(for Adol'f) 2. Moskovskiy oblastnoy pedagogicheskiy institut
imeni Potemkina (for Bashenina) 3. Glavnyy botanicheskiy sad
Akademii nauk SSSR (for Dukel'skaya).
(Rodent control) (Zinc phosphides)

5(3)

SOV/153-58-2-14/30

AUTHORS: Smirnova, T. V., Dukel'skaya, N. M., Kondrat'yev, Yu. A.

TITLE: Synthesis of Some Physiologically Active Substances (Sintez nekotorykh fiziologicheskii aktivnykh veshchestv)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 2, pp 82-86 (USSR)

ABSTRACT:

It is known from literature that compounds of the type RO- where R = CH₃-, C₂H₅-, C₄H₉-, C₃H₇-, are physiologically active and exert an insecticidal effect (Ref 1). It was found that the introduction of such groups as OH and OR into the molecule of an organic compound provide this substance with physiological activity. For instance, if the -OH-group is introduced into the nucleus of an aromatic compound, this compound is often provided with a protoplasmatic effect; the introduction of -OR, on the other hand, increases the effect exercised by the resulting compound upon the nervous system. If a halogen atom is introduced into the molecule of an organic compound the physiological activity of the latter is multiplied, particularly in the case of fluorine introduction (Ref 3).



Card 1/3

Synthesis of Some Physiologically Active Substances SOV/153-58-2-14/30

The purpose of this paper was the synthesis of some physiologically active compounds which are used for deratization. 6 halogen derivatives of phenyl ether were produced (Table 1). All these compounds were synthesized according to the same method (see experimental section). The halogen derivatives of phenols or the phenol itself were condensed with the corresponding 1,2-dihalide-ethane. In the laboratory of the faculty mentioned under "Association" the toxic properties of the synthesized phenyl-ethyl ether were tested. The most toxic compound was p-chloro-phenyl- β -fluoroethyl-ether which was able to kill within 3-7 hours 100% of adult rats if administered perorally in a dosage of 0,005 ml. All of the 6 compounds listed possess a strong etheric odor which complicates their use in deratization. In order to overcome this difficulty, the synthesis of p,p'-di(β -fluoro-ethoxy-phenyl)-dimethyl-methane was carried out. This is a solid odorless compound and has stood its test. Its lethal dose for white rats is 120-140 mg/kg, for voles - 0,25 mg/100 g live weight. Thus it is valuable also in the destruction of rodents in the fields. There are 2 tables and 5 references, 3 of which are Soviet.

Card 2/3

Synthesis of Some Physiologically Active Substances

SOV/153-58-2-14/30

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni D. I. Mendel'eyeva i Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M. V. Lomonosova (Moscow Institute of Chemical Technology imeni D. I. Mendeleev and Faculty of Biology and Soil-Science of the Moscow State University imeni M. V. Lomonosov)

SUBMITTED: October 4, 1957

Card 3/3

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Use of ethylene fluorohydrin in simultaneous control of rodents
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geog. 14 no.1:65-71 '59. (MIRA 12:9)

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(Rodenticides) (Insecticides) (Fluorine organic compounds)

DUKEL'SKAYA, N.M.

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(Siberia, Western—Water voles)

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(RODENTICIDES)

(FLUORINE ORGANIC COMPOUNDS)

KIRZON, M.V.; DUKEL'SKAYA, N.M.; BORISOVA, L.B.; SIMKIN, G.N.

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(FLUORINE ORGANIC COMPOUNDS)
(RODENTICIDES)

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SMIRNOVA, T.V.; DUKEL'SKAYA, N.M.; NAUMOVA, I.I.

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DUKAL'SKIY, A.I., doktor tekhn.nauk; SKOMOROVSKIY, R.V., kand.tekhn.nauk

Operational characteristics of some portal crane boom systems.
Trudy TSHIIMP no.21:3-12 '58. (MIRA 12:8)
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SHASS, M.Ye.; red.; LAGUTINA, I.N., tekhn. red.; KL'KINA, E.M., tekhn. red.

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(Colloids)

DUKEL'SKIY, M.P.

BEYLINA, TS.O., inzhener; BLAGONADEZHIDIN, V.Ye., inzhener; BOGUSLAVSKIY, P.Ye., kandidat tekhnicheskikh nauk; VORONKOV, I.M., professor, GITINA, L.Ya., inzhener; GROMAN, M.B., inzhener; GOROKHOV, N.V., doktor tekhnicheskikh nauk [deceased]; DENISTYUK, I.N., kandidat tekhnicheskikh nauk; DOVZHIK, S.A., kandidat tekhnicheskikh nauk; ~~DUKEL'SKIY, M.P., professor, doktor khimicheskikh nauk [deceased];~~ DYKHOVICHNYI, A.I., professor; ZHITKOV, D.G., professor, doktor tekhnicheskikh nauk; KOZLOVSKIY, N.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk; LEVENSON, L.B., professor, doktor tekhnicheskikh nauk [deceased]; LEVIN, B.Z., inzhener; LIPKAN, V.F., inzhener; MARTYNOV, M.V., kandidat tekhnicheskikh nauk; MOLEVA, T.I., inzhener; NOVIKOV, P.S., kandidat tekhnicheskikh nauk; OSETSKIY, V.M., kandidat tekhnicheskikh nauk; OSTROUMOV, G.A.; PONOMARENKO, Yu.F., kandidat tekhnicheskikh nauk; RAKOVSKIY, V.S., kandidat tekhnicheskikh nauk; REZIRER, Z.L., inzhener; SOKOLOV, A.N., inzhener; SOSUNOV, G.I., kandidat tekhnicheskikh nauk; STEPANOV, V.N., professor; SHEMAKHANOV, M.M., kandidat tekhnicheskikh nauk; EL'KIND, I.A., inzhener; YANUSHEVICH, L.V., kandidat tekhnicheskikh nauk; BOKSHITSKIY, Ya.M., inzhener, redaktor; BULATOV, S.B., inzhener, redaktor; GASHINSKIY, A.G., inzhener, redaktor; GRIGOR'YEV, V.S., inzhener, redaktor; YEGURNOV, G.P., kandidat tekhnicheskikh nauk, redaktor; ZHARKOV, D.V., dotsent, redaktor; ZAKHAROV, Yu.G., kandidat tekhnicheskikh nauk, redaktor; KAMINSKIY, V.S., kandidat tekhnicheskikh nauk, redaktor; KOMAROV, Ye.F., professor, redaktor; KOSTYLEV, B.N., inzhener, redaktor; POVAROV, L.S., kandidat tekhnicheskikh nauk, redaktor; ULINICH, P.R., redaktor; KLORIK'YAN, S.Kh., otvetstvennyy redaktor; GLADILIN, L.V., redaktor;

(Continued on next card)

EBYLINA, TS.O. --- (continued) Card 2.

RUPPENNYT, K.V., redaktor; TERPIGOREV, A.M., glavnyy redaktor;
BARABANOV, F.A., redaktor; BARANOV, A.I., redaktor; BUCHNEV, V.K.,
redaktor; GRAPOV, L.Ye., redaktor; DOKUKIN, A.V., redaktor; ZADEMID-
KO, A.N., redaktor; ZASYAD'KO, A.F., redaktor; KRASNIKOVSKIY, G.V.
redaktor; LETOV, N.A., redaktor; DISHIN, G.L., redaktor; MAN'KOV-
SKIY, G.I., redaktor; MBL'NIKOV, N.V., redaktor; ONIKA, D.G.,
redaktor; OSTROVSKIY, S.B., redaktor; POKROVSKIY, N.M., redaktor;
POLSTYANOV, G.N., redaktor; SKOCHINSKIY, A.A., redaktor; SONIN,
S.D., redaktor; SPIVAKOVSKIY, A.O., redaktor; STANCHENKO, I.K.,
redaktor; SUDOPLATOV, A.P., redaktor; TOPCHIYEV, A.V., redaktor;
TROYANSKIY, S.V., redaktor; SHEVYAKOV, L.D., redaktor; BYKHOV-
SKAYA, S.N., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy
redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy
spravochnik. Glav.red. A.M. Terpigorev. Chleny glav.red. F.A. Bara-
banov i dr. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po ugol'noi
promysh]. Vol.1. [General engineering] Obshchie inzhenernye
svedeniia. Redkolegiia toma S.Kh.Klorik'ian i dr. 1957. 760 p.
(Mining engineering) (MLRA 10:10)

DUKEL'SKIY, Solomon Kononovich, kandidat ekonomicheskikh nauk;
KHODCHAYEV, A.M., kandidat ekonomicheskikh nauk, redaktor;
GAMZAYEVA, M., tekhnicheskiy redaktor

[Money; a lecture in a course on political economy.] Den'gi;
lektsiia po kursu politicheskoi ekonomii. Moskva, Gos.isd-vo
"Sovetskaiia nauka," 1956. 38 p. (MLBA 10:5)
(Money)

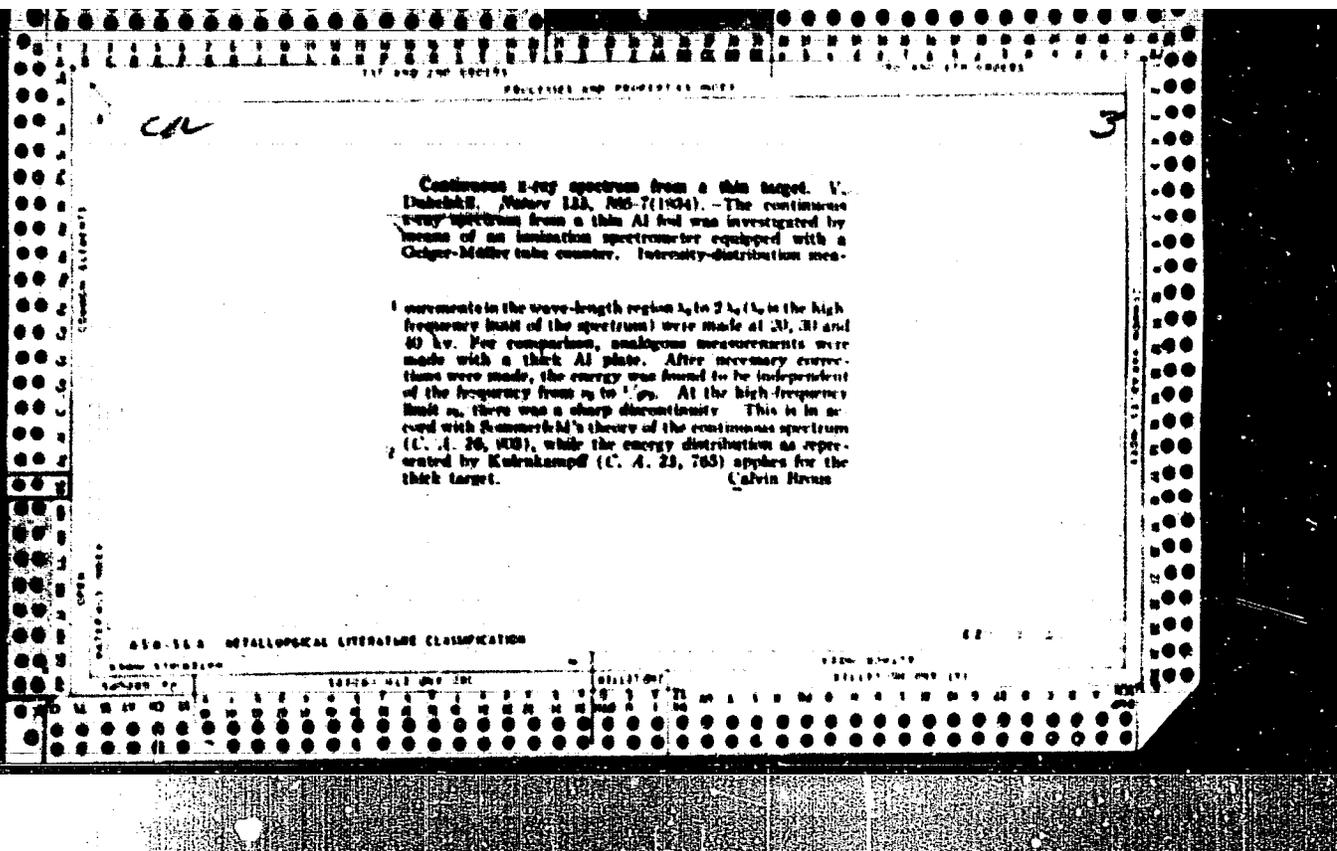
DUKEL'SKIY, S.Ye.

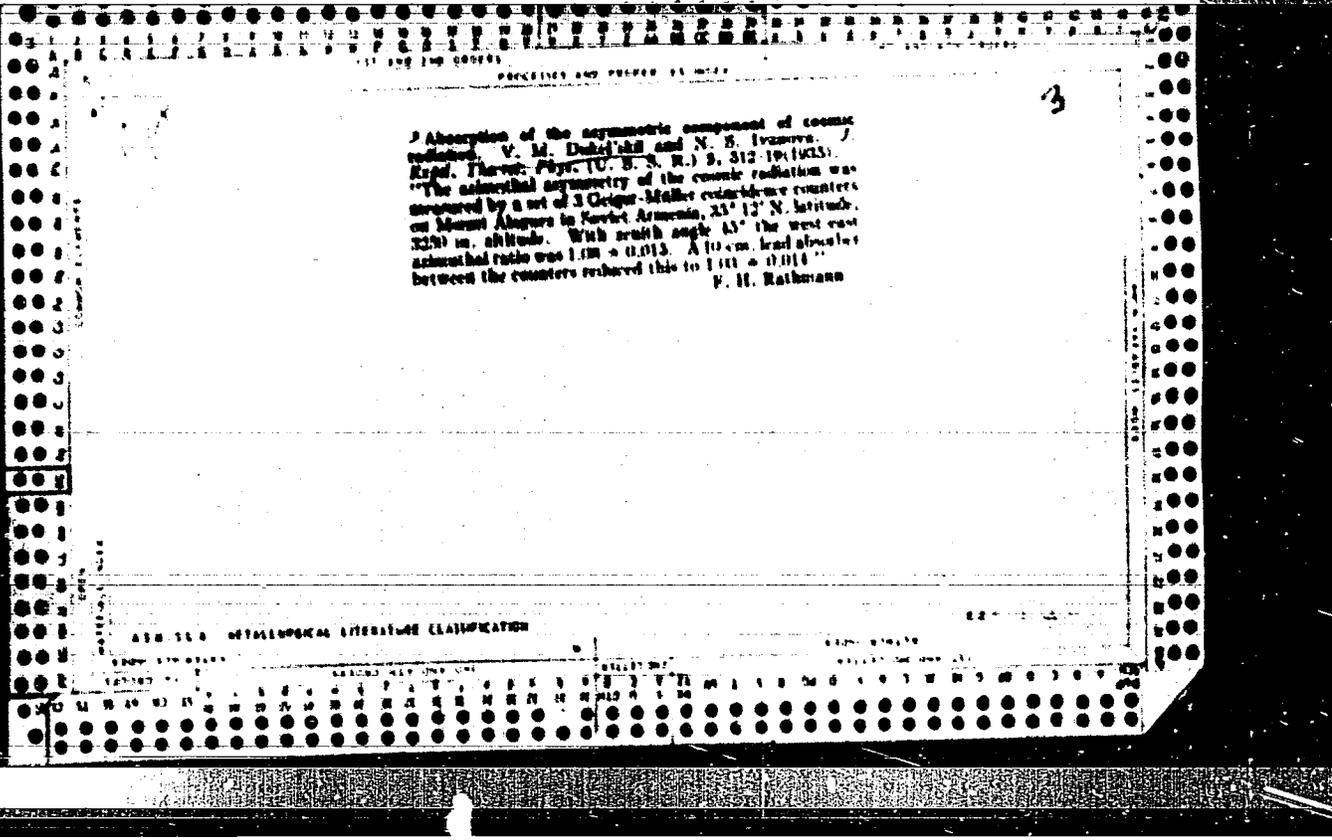
**An important requirement for the equipment of bathrooms in
newly constructed houses. Gig. 1 san. no.10:46-47 0 '55.
(BATHROOMS) (MLRA 9:1)**

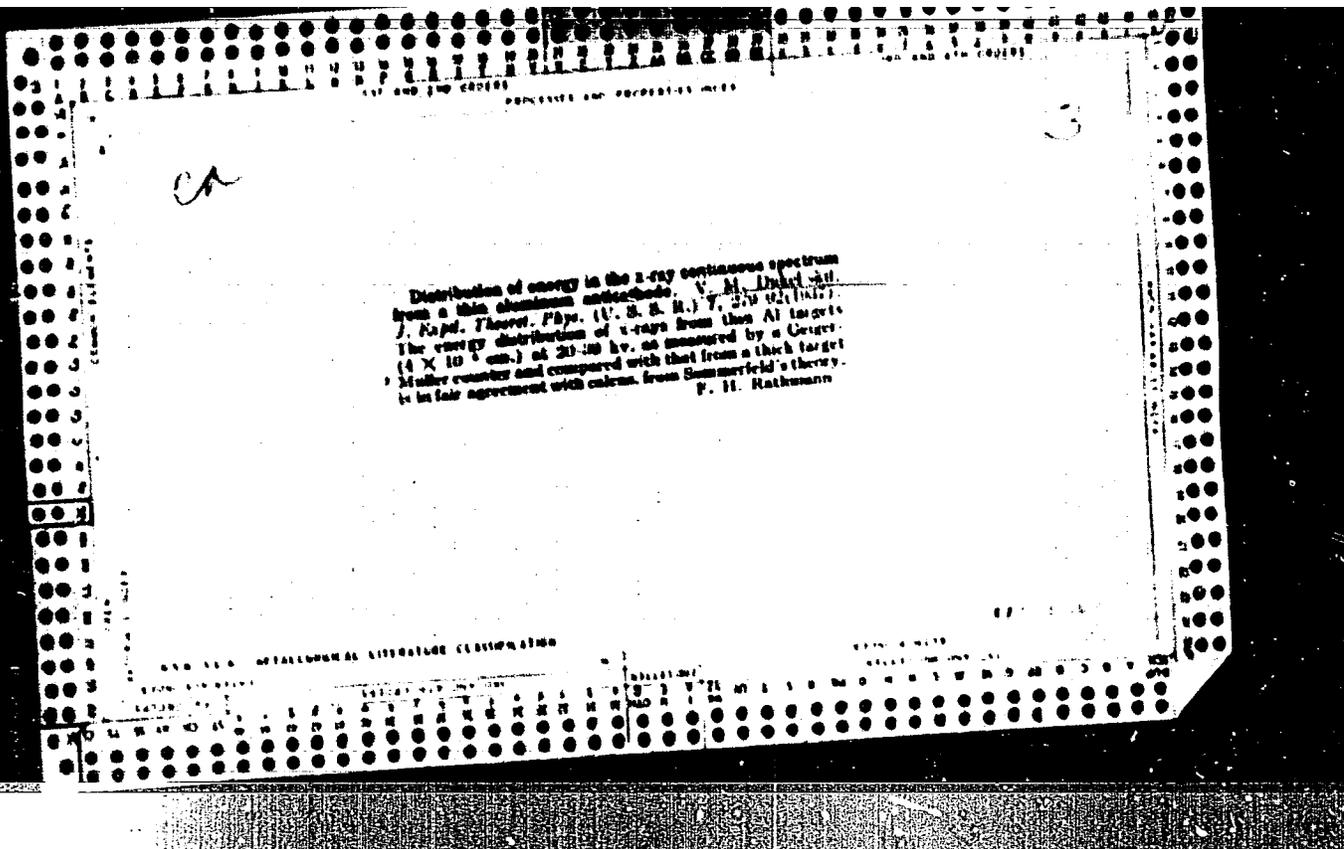
IVIN, K.T.; KASHLEV, V.V.; ZUYEV, V.S.; DUKEL'SKIY, V.A., otv. red.;
DYUZHENKO, G.A., red.; FRUMKIN, P.S., tekhn. red.

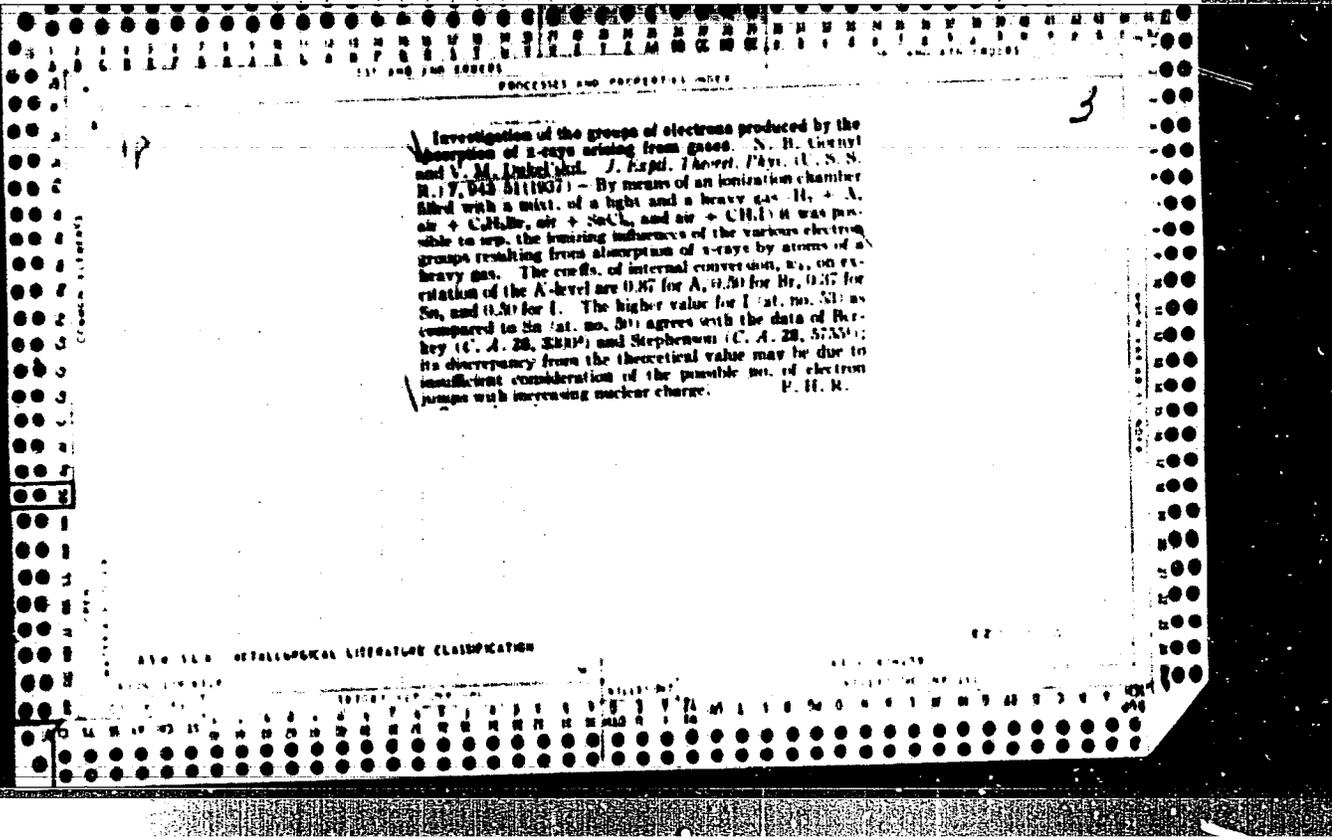
[Slide projection method of manufacturing pipe templates
and models] Fotoproektsionnyi metod isgotovleniia shablonov
i maketirovaniia trub. [n.p.] Sudpromgiz, 1953. 41 p.
(MIRA 16:8)

(Marine pipe fitting)
(Photomechanical processes)









17

3

Investigation of the groups of electrons produced by the absorption of x-rays arising from gases. N. B. Chernyi and V. M. Dubel'ski. *J. Exptl. Theoret. Phys. (U. S. S. R.)* 7, 643 51(1967) - By means of an ionization chamber filled with a mixt. of a light and a heavy gas (H₂ + A, air + C₆H₆, air + SnCl₄, and air + CH₄) it was possible to sep. the ionizing influences of the various electron groups resulting from absorption of x-rays by atoms of a heavy gas. The coeffs. of internal conversion, α_{∞} , on excitation of the K-level are 0.87 for A, 0.50 for Br, 0.47 for Sn, and 0.50 for I. The higher value for I (at. no. 53) as compared to Sn (at. no. 50) agrees with the data of Purley (C. A. 28, 3819) and Stephenson (C. A. 28, 5755); its discrepancy from the theoretical value may be due to insufficient consideration of the possible no. of electron jumps with increasing nuclear charge. P. H. R.

DUKEL'SKEY, V. N.

36/49 715

Chemistry - Ions, Electrolytic, Sep 48
Chemistry - Alkali metal salts

"Negative Ions of Alkali Metals in Gas Discharges Occurring in Vapors of Alkali-Haloid Salts," V. N. Dukel'skiy, K. Za. Zakharenko, T. I. Ionov, Leningrad Physicochem Inst, Izvesti 2. H. Izbeler, Acad Sci USSR, 2 pp

"Dokl Akad Nauk SSSR" Vol LIII, No 3, pp 323-4.

Introduces results of preliminary experiments investigating composition of ions which form in a gaseous discharge in vapors of the alkali-haloid salts LiCl, NaI, and KI. Established the
36/49715

Chemistry - Ions, Electrolytic, Sep 48
Mass of (Contd.)

existence of negative ions of Li, Cl, and I and their concentration in the discharge was large enough to enable easy discovery and measurement (mass). Submitted by Acad A. F. Ioffe, 26 Jul 48.

36/49 715

DUKEL'SKIY, V. N.

PA 61/49T106

Secondary Emission
Ions

Aug 49

The Problem of Secondary Electron Emission Under
the Action of Negative Ions. V. N. DUKEL'SKIY,
I. A. ZAKHAROV, Leningrad Physicochem Inst, Acad
Sci USSR, 7 pp

"Our Paper 1 Teoret Fiz" Vol XII, No 8,

Page 731.

Conducted comprehensive measurements of the coeffi-
cient of secondary electron emission of a
platinum target under the action of positive
and negative iodine ions having energies of
200-400 eV and positive and negative sodium ions
61/49T106

Secondary Emission (Contd)

Aug 49

having energies of 290-2,800 eV. In both cases,
the coefficient was considerably larger under the
action of negative ions than under the action of
positive ions of the same energy. Advanced
hypothesis that, in the case of negative ions,
part of the secondary electrons are created by
the breakdown of the negative ions themselves at
the target surface. Submitted 15 Apr 49.

61/49T106

DUKEL'SKIY, V. M.

Physics
Ions
Discharges

Feb 69

"Negative Ions in Gaseous Discharge in Sodium Vapor,"
V. M. Dukel'skiy, E. Ya. Zaslberg, Leningrad Physico-
Tech Inst, Acad Sci USSR, 2 pp

"Dokl Ak Nauk SSSR" Vol LIV, No 6, pp 807-808.

In investigating the spectra of negative ions, which
are extractable from a discharge in the vapors of
alkali-haloid salts (LiCl, KI, NaI), small quantities
of atomic ions of the metals and molecular ions of
the salts were discovered, beside the atomic ions of
the haloids. Conducted experiment which confirmed
assumption that atomic ions of the metal and haloids
occur in the discharge because of the disintegration of
the molecular ions in the neutral atom and the nega-
tive atomic ion. Submitted by Acad A. F. Ioffe,
Dec 48.

09/497100

DUBSKII, V. N.

2/507103

USSR/Physics - Ions
Mass-Spectrography
Sep 49

"Negative Ions of Rubidium and Cesium," V. N. Dubskii, E. Ye. Zandberg, N. I. Ionov, Leningrad Physicotech Inst, Acad Sci USSR, 2 pp

"Dok Ak Nauk SSSR" Vol LXVIII, No 1, 1959-52.

Used a low-pressure discharge in vapors of RbCl and CsCl as an ion source. Ions were drawn from discharge in a vacuum, accelerated to an energy of 1,350 eV, and analyzed with a magnetic mass-spectrograph with a calculated resolving power of about 100. Ionic currents were measured with a

2/507103

USSR/Physics - Ions
Mass-Spectrography (Contd)
Sep 49

vacuum-tube electrometer having sensitivity of approx 6-10⁻¹⁴ amp per scale division. Discovery of negative Rb and Cs ions shows that atoms of all alkali metals have electron affinity. Submitted by Acad A. P. Joffe 6 Jul 49.

2/507103

FA 169793

DUKEL'SKIY V. M.

USSR/Physics - Gaseous Discharge Ions, Negative Oct 50

"Negative Ions in a Gaseous Discharge in Vapors of Halide Salts of Alkali and Alkali- Earth Metals," V. M. Dukel'skiy, E. Ye. Zandberg, N. I. Ionov, Leningrad Physicotech Inst, Acad Sci USSR

Zhur Ekspier i Teoret Fiz Vol XI, No 10, pp 877-885

Mass-spectroscopic analysis of composition of negative ions occurring in gaseous discharges

169793

USSR/Physics - Gaseous Discharge (Cont'd) Oct 50

In vapors of subject salts: Establishes existence of Li^- , Na^- , K^- , Rb^- , Ce^- . Ions Mg^- and Ca^- in discharges in vapors of $MgCl_2$ and $CaCl_2$ are not observed. Molecular negative ions of type NaI^- and NaI_2^- are observed in the case of alkali halide salts, and ions of type NaI^- , NaI_2^- , and NaI_3^- for $CaCl_2$ and $MgCl_2$ also are observed. Negative atomic ions of Ag are observed in discharges in vapors of AgI. Submitted 7 Mar 50.

169793

DUKELSKIY, V. M.

USSR/Nuclear Physics - Beta Decay

Nov 51

"Decay of Negative Ions During Collisions With Atoms," V. M. Dukelskiy, E. Ya. Zandberg, Lenin-grad Phys-Tech Inst, Acad Sci USSR

"Zhur Ekspar 1 Teoret Fiz" Vol XXI, No 11, pp 1270-1283

During passage of neg. ions Na⁻, K⁻, F⁻, Cl⁻, Br⁻ and I⁻ through a low-pressure He-filled chamber, slow electrons are observed. They are assumed to be decay product of collisions of neg. ions with He atoms. Effective cross sections of these processes within ion energy of 300-1300 eV are found. A simple dependence of cross section on

204778

USSR/Nuclear Physics - Beta Decay (Contd)

Nov 51

energy of excess electron was not found. Acknowledge assistance of O. B. Firsov. Submitted 22 Dec 50.

204778

DUKEL'SKIY, V. M.

USSR/Physics - Ions of Metals,
Negative

11 Dec 51

"Negative Ions of Selenium, Tellurium, Antimony,
and Bismuth," V. M. Dukel'skiy and M. I. Ionov,
Leningrad Phys-Tech Inst, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXI, No 5, pp 767-769

Establishes that neg ions of subject metals, which
had not been known up to this time, actually do
exist. Investigates the arc discharge in the va-
por of the metal. Demonstrates the possibility of
the formation of neg ions by heavy metal atoms.

Submitted by Acad A. F. Ioffe, 16 Oct 51

210794

DUKEL'SKIY, V. M.

USSR/Physics - Ionisation . 1 Jan 52

"Recharge of Negative Ions Na⁻, K⁻, O⁻, OH⁻, and O₂⁻ With Oxygen Molecules," V. M. Dukel'skiy, S. Ya. Zandberg, Leningrad Phys-Tech Inst, Acad Sci USSR

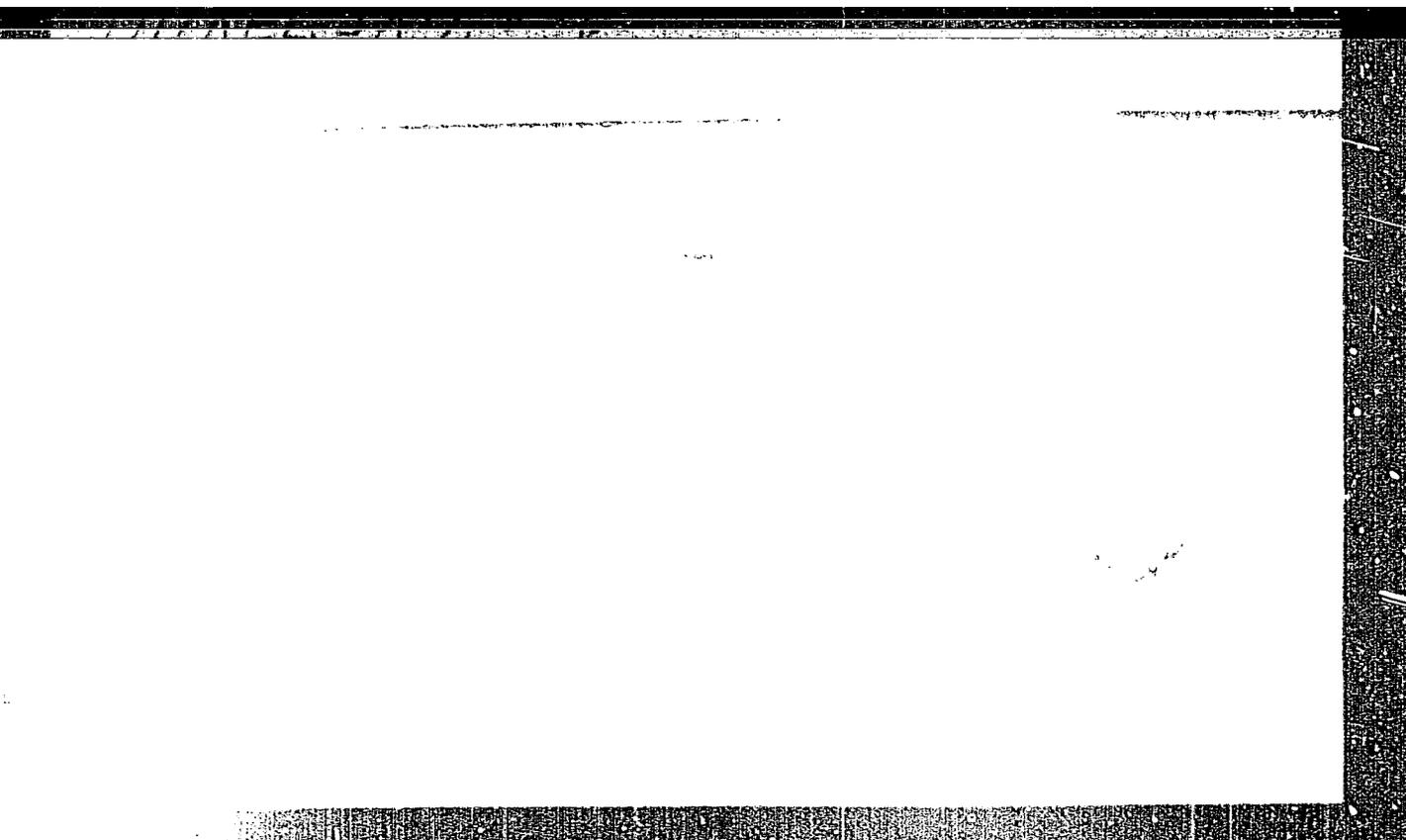
"Dok Ak Nauk SSSR" Vol 82, No 1, pp 33-36

Zandberg states that during the passage of positive ions through rarefied gases one observes the so-called "recharge," i.e., the transition of an electron from an atom or a mol of the gas to a positive ion. States that a similar phenomenon also

230789

can occur for negative ions, in which case the transition of an excess electron of a negative ion to an atom or a mol of the gas must occur. Cf. Evans and Uri, Trans Farad Soc 45, 224, 1949; Nagatsumi, Phys Rev, 82, 767, 1951. Submitted by Acad A. P. Ioffe 1 Nov 51.

230789



DUPLET'SKIY, V. M.

"Collisions of Negative Ions with Atoms and Molecules." Dr Phys-Math
Sci, Leningrad Physicotechnical Inst, Acad Sci USSR, Leningrad, 1954.
(RZhKhim, No 17, Sep 54)

SO: Sum 432, 29 Mar 55

Periodicals r box, AN SSSR 99/6, 947-950, Dec 21, 1954

DUKELSKIY

USSR/Physics - Ion collisions

FD-2909

Card 1/1 Pub. 146 - 9/19

Author : Dukel'skiy, V. M.; Fedorenko, N. V.

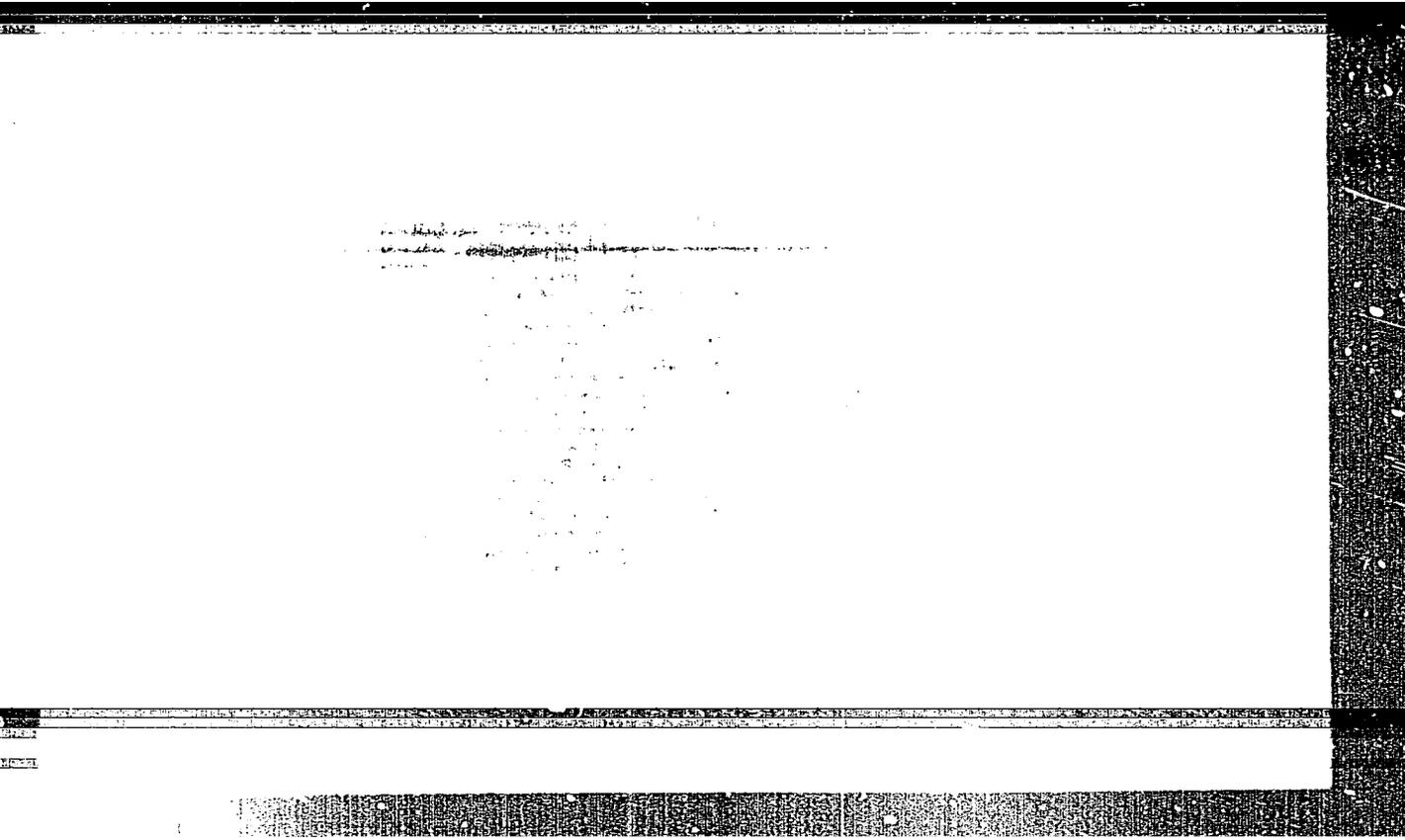
Title : ~~Losses of two electrons by negative ions in collisions with atoms and molecules~~

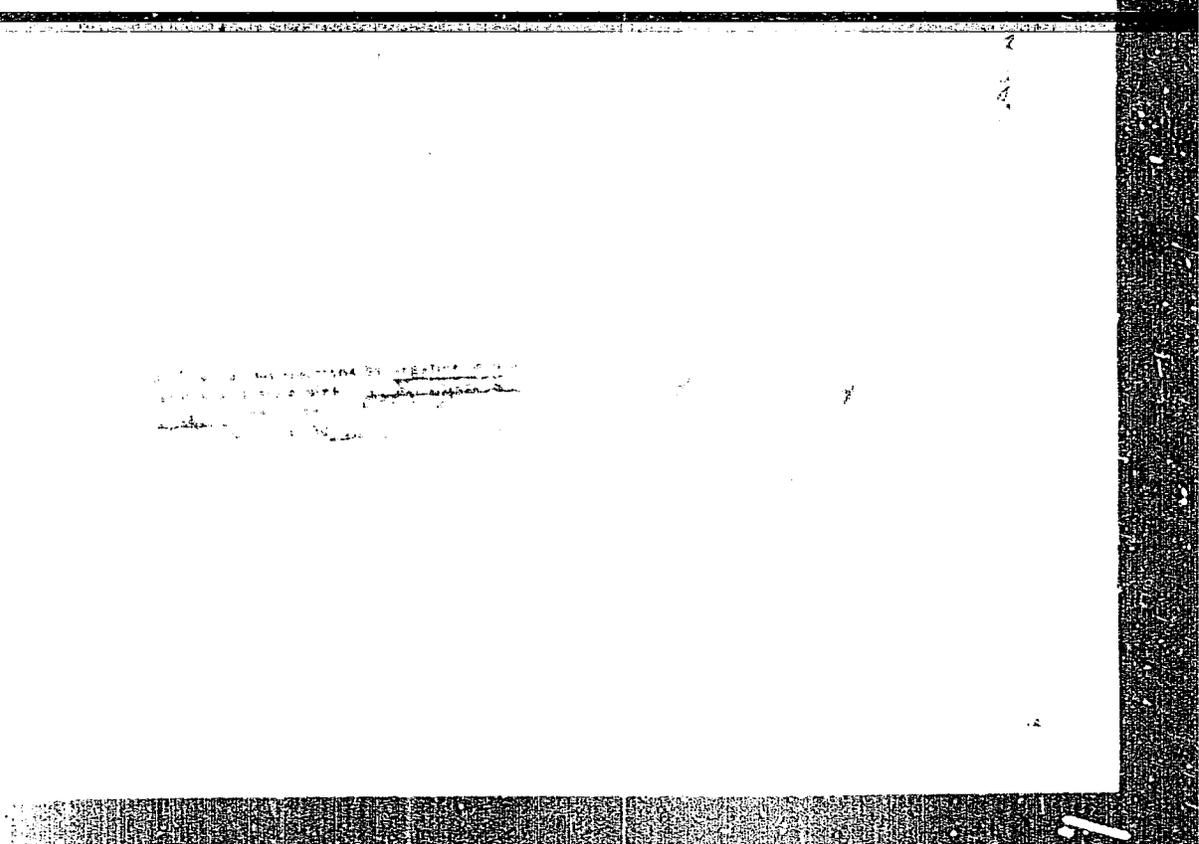
Periodical : Zhur. eksp. i teor. fiz., 29, October 1955, 473-478

Abstract : In single collisions of the ions Cl^- , Br^- , I^- , Na^- , Sb^- , Bi^- , Sb_2^- (energy 5 to 17.5 kev) with helium and argon atoms, and also with nitrogen and hydrogen molecules, the author observed the appearance of positive ions formed as a result of the loss of two electrons by the negative ions. The effective cross section for this process is of the order of 10^{-17} to 10^{-16} cm^2 . For the ions Sb_2^- and Bi_2^- the author observed dissociation with the appearance of not only negative but also positive atomic ions. Three references: e.g. V. M. Dukel'skiy and E. Ya. Zandberg, *ibid.*, 21, 1270, 1951; N. V. Fedorenko, *ZhTF*, 24, 769, 1954.

Institution : Leningrad Physicotechnical Institute, Academy of Sciences of the USSR

Submitted : May 27, 1954





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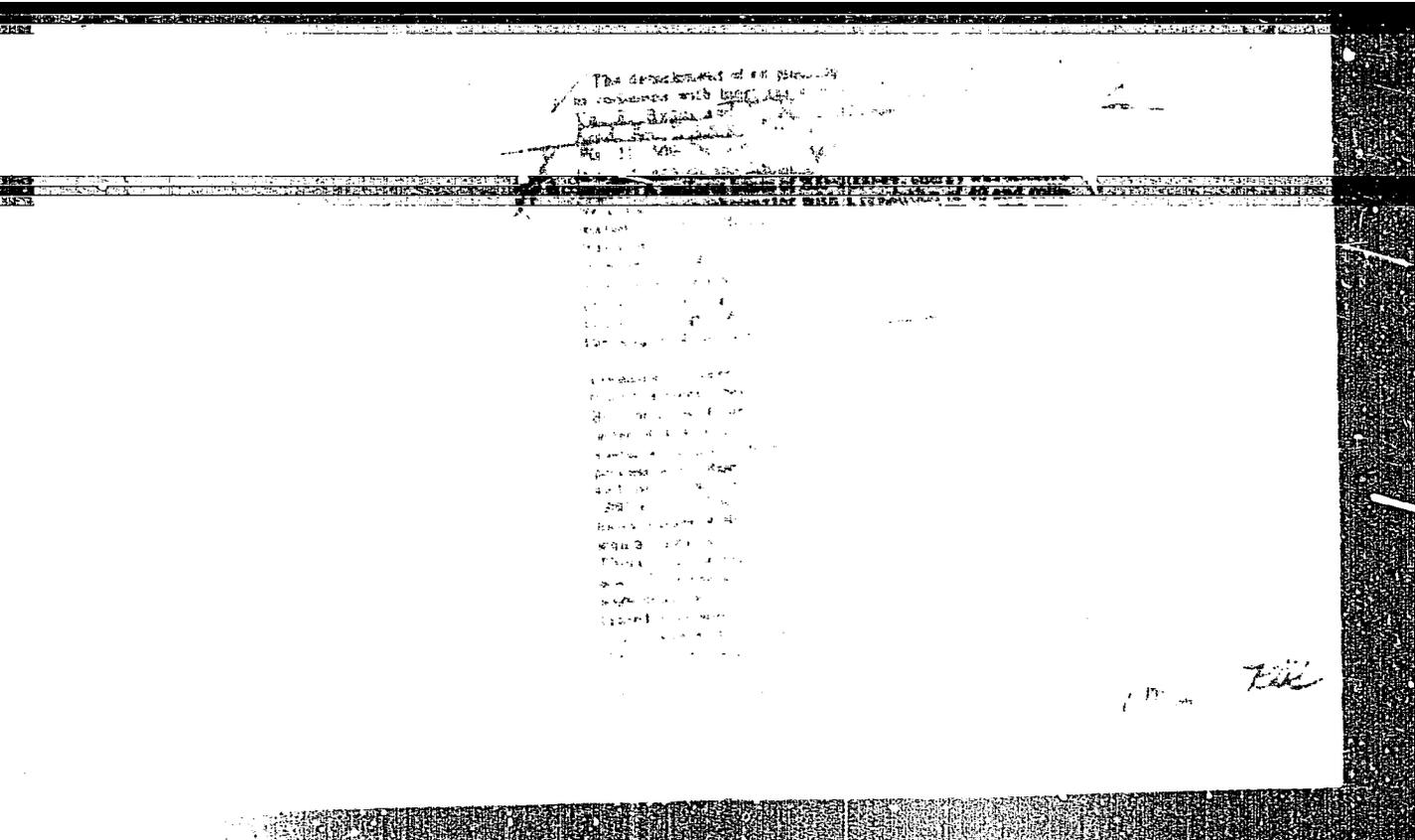
Category : USSR/Nuclear Physics - Origin of Charged and Neutral Particles
through Matter

C-6

Abs Jour : Ref Zhur - Fiziki, No 1, 1957, No 584

respectively. The cross section for He is on the order of 10^{-21} cm². Since the He⁻ ion in the ground state $(1s^2 2s)^2 s$ is unstable, it is possible that we deal here with a metastable He⁻ ion in a $(1s 2s 2p)^4 P_{5/2}$ state, the lifetime of which should be on the order of 10^{-3} sec. (The time of flight of the He ions in the instrument was approximately 4×10^{-7} sec at an energy of 60 kev).

Card : 2/2



1018
[Faint, illegible text]

The Negative Ions of Silicon, Germanium, Tin, and Lead. PA - 2706

ion source no negative ions were observed. If, however, antimony vapors are introduced together with the ions Sb , Sb_2 , and Sb_3 , also Ge-ions (70, 72, 73, 74, 76) were observed.

Tin: The chamber of the ion source was filled with $SnCl_4$ -vapors. In the spectrum of the negative ions, besides the ions Cl^- and Cl_2^- also Sn-ions (112, 114, 116, 117, 119, 118, 120, 121, 124), were observed, and, additionally, $SnCl^-$, $SnCl_2^-$, $SnCl_3^-$, and $SnCl_4^-$; Negative Sn-ions were also produced by a "re-charge" of negative bismuth ions and tin atoms.

Lead: The ion source was filled with PbJ_2 -vapors. The following lines were observed in the spectrum of the negative ions: J^- , Pb^- (204, 206, 207, 208,) J_2^- , PbJ^- , and PbJ_2^- .
(1 ill.)

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Leningrad Physical-Technical Institute of the Academy of Science of the USSR.
21. 11. 1956
Library of Congress

DUKEL'SKIY, U.M.

AUTHORS: Khvostenko, V. I., Dukel'skiy, V. M., 56-4-4/54

TITLE: The Formation of Negative H-ions when Electrons Collide with Hydrogen Molecules (Obrazovaniye otritsatel'nykh ionov H-pri stolknoveniyakh elektronov s molekulami vodoroda)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4, pp. 851-855, (USSR)

ABSTRACT: The experiments were carried out with a mass spectrometer, where the steaa of ions was measured by a multiplier. This latter had a multiplication factor of 1000 for H-ions of 1000 eV. Attention was paid to special purity of the H₂-gas. A narrow maximum at 14,5 eV may be seen from the curve showing the dependence of the yield of H-ions on the energy of the electrons. This maximum is to be attributed to a resonance trapping of the electrons by the H₂-molecules. The formation of H-ions at higher electron energies is probably to be traced to the fact that the H₂-molecules are dissociated into positive and negative ions by the electron bombardment. There is 1 figure.

ASSOCIATION: Leningrad Physico-Technical Institute AN USSR (Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR)

SUBMITTED: April 23, 1957

AVAILABLE: Library of Congress
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DUKEL'SKIY, V. M.

"The classification of physical publications"

report presented at a Conference on Library Cataloguing, Leningrad, Library of
AS USSR, 24-26 Apr 1958

DUKELSKIY, V. M.

DUKELSKIY, V. M., Prof., and KVOSTENKO, V. I.
Leningrad Phys. Tech. Inst.

"Formation of Hydrogen Negative Ions on Collisions with Hydrogen Molecules,"

Paper presented by Dukelskiy at Conf. on Physics of Electronic & Atomic Collisions
New York University, 27- 28 Jan 1958.

B - 3,102,929